

09/58/594

| L Number | Hits | Search Text   | DB  | Time stamp       |
|----------|------|---|---|------------------|
| 1        | 32   | kubota-teruo.in.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 09:55 |
| 2        | 34   | takaya-hitoshi.in.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 09:56 |
| 3        | 680  | yamashita-hiroyuki.in.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 09:57 |
| 4        | 11   | detergent same particle adj growth  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 10:03 |
| 5        | 12   | 510/\$.ccls. and particle adj growth  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 10:07 |
| 6        | 19   | agitation adj3 impeller same paddle   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 10:09 |
| 7        | 214  | 510/\$.ccls. and mix\$3 same paddle   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 12:03 |
| 8        | 33   | (spray adj1 dried or base) same (absorb\$ or absorption or adsorb\$3 or spray\$3) near5 (nonionic or eo or neodol or ethoxy\$5 or alkoxy\$5) same (particle or average or mean) adj3 size same bulk adj1 densit\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 13:01 |
| 9        | 25   | (spray adj1 dried or base) same (absorb\$ or absorption or adsorb\$3 or spray\$3) near5 (nonionic or eo or neodol or ethoxy\$5 or alkoxy\$5) same (particle or average or mean) adj3 size same bulk adj1 densit\$3 same (dust\$3 or coat\$3 or spray\$3) same (fine or powder or zeolite or silica) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 13:10 |
| 10       | 0    | mix\$ same 3impeller same paddle same detergent   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 13:15 |
| 11       | 6    | impeller same (paddle or ribbon or screw) same detergent  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/04/25 13:17 |

|    | U                                   | 1                        | Document ID       | Issue Date | Pages | Title  | Current OR |
|----|-------------------------------------|--------------------------|-------------------|------------|-------|--|------------|
| 1  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 20020155977 A1 | 20021024   | 32    | Detergent particles  | 510/446    |
| 2  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 6534474 B1     | 20030318   |       | Surfactant composition   | 510/536    |
| 3  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4871467 A      | 19891003   |       | Non-sedimenting liquid detergent compositions resistant to shear   | 510/325    |
| 4  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4659497 A      | 19870421   |       | Liquid detergent compositions  | 510/418    |
| 5  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4515704 A      | 19850507   |       | Pourable non-sedimenting aqueous based detergent composition having an organic lamellar structural component   | 510/418    |
| 6  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | JP 2000336398 A   | 20001205   |       | PRODUCTION OF DETERGENT PARTICLES  |            |
| 7  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP 1104804 A1     | 20010606   |       | METHOD FOR PRODUCING SINGLE NUCLEUS DETERGENT PARTICLES  |            |
| 8  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP 1041139 A1     | 20001004   |       | PROCESS FOR PRODUCING DETERGENT PARTICLES  |            |
| 9  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | WO 200023560 A    | 20000427   |       | Simple and efficient process for producing detergent particles comprises mixing base granules and a surfactant composition, and mixing the obtained mixture with a fine powder |            |
| 10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 3865754 A      | 19750211   |       | Crystallisation seed-contg detergent compsn - also contains aluminate and precipitant for free metal ions  |            |
| 11 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | JP 48061616 A     | N/A        |       | Emulsion for injection prodn - having high oxygen carrying ability   |            |

|    | Current XRef  | Retrieval<br>Classif | Inventor               | S                        | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1  |   |                      | Kubota, Teruo et al.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2  | 510/224;<br>510/351;<br>510/356;<br>510/357;<br>510/446;<br>510/475;<br>510/492 |                      | Okada, Kyoko et al.    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3  | 510/337;<br>510/340;<br>510/341;<br>510/418                                     |                      | Akred, Brian J. et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4  | 510/320;<br>510/325;<br>510/340;<br>510/424;<br>510/428;<br>510/429;<br>510/430 |                      | Akred, Brian J. et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5  | 510/320;<br>510/325;<br>510/340   |                      | Akred, Brian J. et al. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6  |   |                      | KUBOTA, TERUO et al.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7  |   |                      | KUBOTA, TERUO et al.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  |   |                      | KUBOTA, TERUO et al.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  |   |                      | KUBOTA, T et al.       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| 9  |                         | <input type="checkbox"/> |
| 10 |                         | <input type="checkbox"/> |
| 11 |                         | <input type="checkbox"/> |

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# Printed by EAST

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**UserID:** LDouyon

**Computer:** WS06325

**Date:** 04/25/2003

**Time:** 13:01

|   | U                        | 1                        | Document ID  | Issue Date | Pages | Title   | Current OR |
|---|--------------------------|--------------------------|--------------|------------|-------|---|------------|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | US 5100510 A | 19920331   | 11    | Apparatus for manufacturing high bulk density particulate fabric softening synthetic anionic organic detergent compositions   | 159/6.3    |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | US 5080820 A | 19920114   | 10    | Spray dried base beads for detergent compositions containing zeolite, bentonite and polyphosphate   | 510/443    |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | US 5024778 A | 19910618   | 9     | Spray dried base beads for detergent compositions containing zeolite, bentonite and polyphosphate   | 510/349    |
| 4 | <input type="checkbox"/> | <input type="checkbox"/> | US 4894117 A | 19900116   | 11    | Process for manufacturing high bulk density particulate fabric softening synthetic anionic organic detergent compositions   | 159/49     |
| 5 | <input type="checkbox"/> | <input type="checkbox"/> | US 4853259 A | 19890801   | 7     | Process for manufacturing particulate built nonionic synthetic organic detergent composition comprising polyacetal carboxylate and carbonate and bicarbonate builders | 510/441    |

|   | Current XRef   | Retrieval<br>Classif | Inventor                | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|---|--|----------------------|-------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 159/11.2;<br>159/13.4;<br>159/16.1;<br>159/9.2;<br>209/11;<br>209/3;<br>34/136;<br>34/60;<br>366/144;<br>366/24                |                      | Bianchi, Antonio et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 252/179;<br>510/323;<br>510/392;<br>510/438;<br>510/532  |                      | Grecsek, John J.        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 252/179;<br>510/323;<br>510/443;<br>510/532;<br>510/533  |                      | Grecsek, John J.        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 159/13.4;<br>159/16.1;<br>159/6.1;<br>159/6.3;<br>34/136;<br>34/58;<br>510/334;<br>510/349;<br>510/357;<br>510/438;<br>510/446 |                      | Bianchi, Antonio et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 427/221;<br>510/349;<br>510/443;<br>510/476;<br>510/479  |                      | Taha, Riad A.           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 2 | US 5080820              | <input type="checkbox"/> |
| 3 | US 5024778              | <input type="checkbox"/> |
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|----|-------------------------------------|--------------------------|--------------|------------|-------|---|------------|
| 6  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4853143 A | 19890801   |       | Bleach activator compositions containing an antioxidant   | 510/312    |
| 7  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4828721 A | 19890509   | 15    | Particulate detergent compositions and manufacturing processes  | 510/308    |
| 8  | <input type="checkbox"/>            | <input type="checkbox"/> | US 4806261 A | 19890221   | 13    | Detersive article   | 510/296    |
| 9  | <input type="checkbox"/>            | <input type="checkbox"/> | US 4795584 A | 19890103   | 9     | Laundry compositions  | 510/277    |
| 10 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4725455 A | 19880216   | 8     | Process for manufacturing particulate built nonionic synthetic organic detergent composition comprising polyacetal carboxylate and polyphosphate builders | 510/443    |

|    | Current XRef  | Retrieval<br>Classif | Inventor                     | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 6  | 252/182.29;<br>252/186.25;<br>252/186.31;<br>252/186.38;<br>252/404;<br>510/306;<br>510/307;<br>510/313;<br>510/314;<br>510/376;<br>510/441;<br>510/442;<br>510/444 |                      | Hardy, Frederick E. et al.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7  | 510/306;<br>510/307;<br>510/326;<br>510/334;<br>510/443;<br>510/444;<br>510/507   |                      | Böllier, Marc M. P. et al.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  | 206/.5;<br>510/299;<br>510/300;<br>510/323;<br>510/324;<br>510/356;<br>510/471;<br>510/475  |                      | Ciallella, Loretta K. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  | 510/295;<br>510/297;<br>510/299;<br>510/300;<br>510/306;<br>510/504;<br>510/528   |                      | Ross, Anne M. et al.         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | 427/220;<br>427/221;<br>510/320;<br>510/323;<br>510/324;<br>510/326;<br>510/349;<br>510/476   |                      | Taha, Riad A.                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 10 | US 4725455              | <input type="checkbox"/> |

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|----|--------------------------|--------------------------|--------------|------------|-------|--|------------|
| 11 | <input type="checkbox"/> | <input type="checkbox"/> | US 4720399 A | 19880119   | 8     | Process for manufacture of particulate built nonionic synthetic organic detergent composition comprising polyacetal carboxylate and carbonate and bicarbonate builders | 510/443    |
| 12 | <input type="checkbox"/> | <input type="checkbox"/> | US 4666740 A | 19870519   | 9     | Phosphate-free concentrated particulate heavy duty laundry detergent   | 510/356    |
| 13 | <input type="checkbox"/> | <input type="checkbox"/> | US 4666738 A | 19870519   | 8     | Method for making a phosphate containing concentrated heavy duty particulate laundry detergent   | 510/356    |
| 14 | <input type="checkbox"/> | <input type="checkbox"/> | US 4664950 A | 19870512   | 9     | Concentrated heavy duty particulate laundry detergent  | 510/356    |
| 15 | <input type="checkbox"/> | <input type="checkbox"/> | US 4664817 A | 19870512   | 12    | Free flowing high bulk density particulate detergent-softener  | 510/331    |
| 16 | <input type="checkbox"/> | <input type="checkbox"/> | US 4663194 A | 19870505   | 9     | Phosphate-free concentrated particulate heavy duty laundry detergent   | 510/356    |

|    | Current XRef  | Retrieval<br>Classif | Inventor         | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 11 | 427/220;<br>427/221;<br>510/320;<br>510/323;<br>510/324;<br>510/326;<br>510/349;<br>510/476             |                      | Taha, Riad A.    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | 427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443                         |                      | Wixon, Harold E. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/441;<br>510/443                                     |                      | Wixon, Harold E. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 252/383;<br>252/384;<br>427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443 |                      | Wixon, Harold E. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 427/214;<br>427/215;<br>427/220;<br>510/438;<br>510/441;<br>510/504                                     |                      | Wixon, Harold E. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 427/214;<br>427/215;<br>427/219;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443             |                      | Wixon, Harold E. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 11 | US 4720399              | <input type="checkbox"/> |
| 12 | US 4666740              | <input type="checkbox"/> |
| 13 | US 4666738              | <input type="checkbox"/> |
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| 16 | US 4663194              | <input type="checkbox"/> |

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|----|-------------------------------------|--------------------------|--------------|------------|-------|--|------------|
| 17 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4569773 A | 19860211   | 12    | Particulate fabric softening detergent composition   | 510/327    |
| 18 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4472287 A | 19840918   |       | Particulate fabric softening composition, fabric softening detergent useful for hand washing laundry and process for manufacture and use thereof | 510/292    |
| 19 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4462804 A | 19840731   | 13    | High bulk density particulate heavy duty laundry detergent   | 8/137      |
| 20 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4457854 A | 19840703   | 12    | High bulk density carbonate-zeolite built heavy duty nonionic laundry detergent  | 510/356    |
| 21 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4411809 A | 19831025   | 9     | Concentrated heavy duty particulate laundry detergent  | 510/324    |
| 22 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4399048 A | 19830816   | 11    | High bulk density particulate heavy duty laundry detergent   | 510/323    |
| 23 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4368134 A | 19830111   | 11    | Method for retarding gelation of bicarbonate-carbonate-zeolite-silicate crutcher slurries  | 510/532    |

|    | Current XRef  | Retrieval<br>Classif | Inventor                              | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|---------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 17 | 510/292;<br>510/326;<br>510/334;<br>510/443;<br>510/444;<br>510/491;<br>510/507;<br>510/515 |                      | Ramachandran, Pallassana<br>N. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | 510/294;<br>510/324;<br>510/334;<br>510/443;<br>510/444;<br>510/491;<br>510/515             |                      | Ramachandran, Pallassana<br>N. et al. | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 510/323;<br>510/324;<br>510/349;<br>510/443;<br>510/452;<br>510/532                         |                      | Gangwisch, William J. et al.          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 | 510/323;<br>510/443;<br>510/507   |                      | Gangwisch, William J. et al.          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21 | 252/179;<br>252/383;<br>252/385;<br>510/326;<br>510/349;<br>510/356;<br>510/441;<br>510/443 |                      | Wixon, Harold E.                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 | 510/324;<br>510/326;<br>510/356;<br>510/443;<br>510/507                                     |                      | Gangwisch, William J. et al.          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | 252/179   |                      | Kaeser, James A.                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



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| 23 | US 4368134              | <input type="checkbox"/> |

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|----|--------------------------|--------------------------|--------------|------------|-------|---|------------|
| 24 | <input type="checkbox"/> | <input type="checkbox"/> | US 4347152 A | 19820831   | 11    | Phosphate-free concentrated particulate heavy duty laundry detergent                          | 510/356    |
| 25 | <input type="checkbox"/> | <input type="checkbox"/> | US 4339335 A | 19820713   | 13    | Free flowing high bulk density particulate detergent-softener                                 | 510/331    |
| 26 | <input type="checkbox"/> | <input type="checkbox"/> | US 4264464 A | 19810428   | 13    | High bulk density particulate heavy duty laundry detergent                                    | 510/323    |
| 27 | <input type="checkbox"/> | <input type="checkbox"/> | US 4260651 A | 19810407   | 11    | Phosphate-free concentrated particulate heavy duty laundry detergent                          | 510/356    |
| 28 | <input type="checkbox"/> | <input type="checkbox"/> | US 4248911 A | 19810203   | 9     | Concentrated heavy duty particulate laundry detergent   | 510/356    |
| 29 | <input type="checkbox"/> | <input type="checkbox"/> | US 3971726 A | 19760727   | 7     | Process for lowering the bulk density of alkali making built synthetic detergent compositions | 510/443    |

|    | Current XRef   | Retrieval<br>Classif | Inventor                     | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|--|----------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 24 | 23/313R;<br>252/179;<br>264/117;<br>510/349;<br>510/351;<br>510/441;<br>510/444  |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 | 252/179;<br>510/324;<br>510/326;<br>510/441;<br>510/504  |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 26 | 252/179;<br>427/220;<br>510/324;<br>510/326;<br>510/349;<br>510/356;<br>510/443  |                      | Gangwisch, William J. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 27 | 23/313AS;<br>23/313R;<br>252/179;<br>252/383;<br>252/384;<br>252/385;<br>427/214;<br>427/215;<br>427/219;<br>427/220;<br>510/349;<br>510/441;<br>510/443;<br>510/507 |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 28 | 427/214;<br>427/215;<br>427/220;<br>427/419.2;<br>510/324;<br>510/326;<br>510/349;<br>510/441;<br>510/443  |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 29 | 510/454;<br>510/531  |                      | Smith, Jr., Frank R. et al.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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|    | U                        | 1                        | Document ID  | Issue Date | Pages | Title  | Current OR |
|----|--------------------------|--------------------------|--------------|------------|-------|--|------------|
| 30 | <input type="checkbox"/> | <input type="checkbox"/> | US 3962149 A | 19760608   | 9     | Non-phosphate spray dried detergents containing dicarboxylic acid salts  | 510/283    |
| 31 | <input type="checkbox"/> | <input type="checkbox"/> | US 3959445 A | 19760525   | 11    | Highly absorbent, low bulk density sodium silicate   | 423/332    |
| 32 | <input type="checkbox"/> | <input type="checkbox"/> | DE 3684085 G | 19870422   | 9     | Low phosphate granular detergent compsn. prepn. - including post-dosing spray-dried polyphosphate-contg. base powder with sodium sulphate      |            |
| 33 | <input type="checkbox"/> | <input type="checkbox"/> | US 4457854 A | 19840703   | 12    | Free flowing, phosphate-free heavy duty laundry detergent - comprising zeolite, carbonate, silicate base beads and absorbed nonionic detergent |            |

|    | Current XRef                                | Retrieval<br>Classif | Inventor                          | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|-----------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 30 | 510/320;<br>510/351;<br>510/361;<br>510/443 |                      | Chirash, William et al.           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31 |   |                      | Jayawant, Madhusudan D.<br>et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 32 |   |                      | APPEL, P W et al.                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 33 |   |                      | GANGWISCH, W J et al.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 31 | US 3959445                      | <input type="checkbox"/> |
| 32 | US 4923628                      | <input type="checkbox"/> |
| 33 | US 4457854                      | <input type="checkbox"/> |

|   | U                                   | 1                        | Document ID  | Issue Date | Pages | Title   | Current OR |
|---|-------------------------------------|--------------------------|--------------|------------|-------|---|------------|
| 1 | <input type="checkbox"/>            | <input type="checkbox"/> | US 5080820 A | 19920114   | 10    | Spray dried base beads for detergent compositions containing zeolite, bentonite and polyphosphate | 510/443    |
| 2 | <input type="checkbox"/>            | <input type="checkbox"/> | US 5024778 A | 19910618   | 9     | Spray dried base beads for detergent compositions containing zeolite, bentonite and polyphosphate | 510/349    |
| 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4853143 A | 19890801   |       | Bleach activator compositions containing an antioxidant   | 510/312    |
| 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | US 4828721 A | 19890509   | 15    | Particulate detergent compositions and manufacturing processes                                    | 510/308    |
| 5 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4806261 A | 19890221   | 13    | Detersive article   | 510/296    |
| 6 | <input type="checkbox"/>            | <input type="checkbox"/> | US 4795584 A | 19890103   | 9     | Laundry compositions  | 510/277    |



|   | Current XRef  | Retrieval<br>Classif | Inventor                     | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|---|---|----------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 252/179;<br>510/323;<br>510/392;<br>510/438;<br>510/532   |                      | Grecsek, John J.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 252/179;<br>510/323;<br>510/443;<br>510/532;<br>510/533   |                      | Grecsek, John J.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 252/182.29;<br>252/186.25;<br>252/186.31;<br>252/186.38;<br>252/404;<br>510/306;<br>510/307;<br>510/313;<br>510/314;<br>510/376;<br>510/441;<br>510/442;<br>510/444 |                      | Hardy, Frederick E. et al.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 510/306;<br>510/307;<br>510/326;<br>510/334;<br>510/443;<br>510/444;<br>510/507   |                      | Bollier, Marc M. P. et al.   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 206/.5;<br>510/299;<br>510/300;<br>510/323;<br>510/324;<br>510/356;<br>510/471;<br>510/475  |                      | Ciallella, Loretta K. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | 510/295;<br>510/297;<br>510/299;<br>510/300;<br>510/306;<br>510/504;<br>510/528   |                      | Ross, Anne M. et al.         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 4 | US 4828721              | <input type="checkbox"/> |
| 5 | US 4806261              | <input type="checkbox"/> |
| 6 | US 4795584              | <input type="checkbox"/> |

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|----|--------------------------|--------------------------|--------------|------------|-------|--|------------|
| 7  | <input type="checkbox"/> | <input type="checkbox"/> | US 4666740 A | 19870519   | 9     | Phosphate-free concentrated particulate heavy duty laundry detergent                           | 510/356    |
| 8  | <input type="checkbox"/> | <input type="checkbox"/> | US 4666738 A | 19870519   | 8     | Method for making a phosphate containing concentrated heavy duty particulate laundry detergent | 510/356    |
| 9  | <input type="checkbox"/> | <input type="checkbox"/> | US 4664950 A | 19870512   | 9     | Concentrated heavy duty particulate laundry detergent  | 510/356    |
| 10 | <input type="checkbox"/> | <input type="checkbox"/> | US 4664817 A | 19870512   | 12    | Free flowing high bulk density particulate detergent-softener                                  | 510/331    |
| 11 | <input type="checkbox"/> | <input type="checkbox"/> | US 4663194 A | 19870505   | 9     | Phosphate-free concentrated particulate heavy duty laundry detergent                           | 510/356    |
| 12 | <input type="checkbox"/> | <input type="checkbox"/> | US 4462804 A | 19840731   | 13    | High bulk density particulate heavy duty laundry detergent                                     | 8/137      |
| 13 | <input type="checkbox"/> | <input type="checkbox"/> | US 4457854 A | 19840703   | 12    | High bulk density carbonate-zeolite built heavy duty nonionic laundry detergent                | 510/356    |

|    | Current XRef  | Retrieval<br>Classif | Inventor                     | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 7  | 427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443                         |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8  | 427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/441;<br>510/443                                     |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9  | 252/383;<br>252/384;<br>427/214;<br>427/215;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443 |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | 427/214;<br>427/215;<br>427/220;<br>510/438;<br>510/441;<br>510/504                                     |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | 427/214;<br>427/215;<br>427/219;<br>427/220;<br>510/324;<br>510/351;<br>510/441;<br>510/443             |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | 510/323;<br>510/324;<br>510/349;<br>510/443;<br>510/452;<br>510/532                                     |                      | Gangwisch, William J. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 510/323;<br>510/443;<br>510/507   |                      | Gangwisch, William J. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 10 | US 4664817              | <input type="checkbox"/> |
| 11 | US 4663194              | <input type="checkbox"/> |
| 12 | US 4462804              | <input type="checkbox"/> |
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|----|--------------------------|--------------------------|--------------|------------|-------|---|------------|
| 14 | <input type="checkbox"/> | <input type="checkbox"/> | US 4411809 A | 19831025   | 9     | Concentrated heavy duty particulate laundry detergent                                     | 510/324    |
| 15 | <input type="checkbox"/> | <input type="checkbox"/> | US 4399048 A | 19830816   | 11    | High bulk density particulate heavy duty laundry detergent                                | 510/323    |
| 16 | <input type="checkbox"/> | <input type="checkbox"/> | US 4368134 A | 19830111   | 11    | Method for retarding gelation of bicarbonate-carbonate-zeolite-silicate crutcher slurries | 510/532    |
| 17 | <input type="checkbox"/> | <input type="checkbox"/> | US 4347152 A | 19820831   | 11    | Phosphate-free concentrated particulate heavy duty laundry detergent                      | 510/356    |
| 18 | <input type="checkbox"/> | <input type="checkbox"/> | US 4339335 A | 19820713   | 13    | Free flowing high bulk density particulate detergent-softener                             | 510/331    |
| 19 | <input type="checkbox"/> | <input type="checkbox"/> | US 4264464 A | 19810428   | 13    | High bulk density particulate heavy duty laundry detergent                                | 510/323    |

|    | Current XRef  | Retrieval<br>Classif | Inventor                     | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|---|----------------------|------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 14 | 252/179;<br>252/383;<br>252/385;<br>510/326;<br>510/349;<br>510/356;<br>510/441;<br>510/443 |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 510/324;<br>510/326;<br>510/356;<br>510/443;<br>510/507                                     |                      | Gangwisch, William J. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 252/179   |                      | Kaeser, James A.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | 23/313R;<br>252/179;<br>264/117;<br>510/349;<br>510/351;<br>510/441;<br>510/444             |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | 252/179;<br>510/324;<br>510/326;<br>510/441;<br>510/504                                     |                      | Wixon, Harold E.             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 252/179;<br>427/220;<br>510/324;<br>510/326;<br>510/349;<br>510/356;<br>510/443             |                      | Gangwisch, William J. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| 20 | <input type="checkbox"/> | <input type="checkbox"/> | US 4260651 A | 19810407   | 11    | Phosphate-free concentrated particulate heavy duty laundry detergent   | 510/356    |
| 21 | <input type="checkbox"/> | <input type="checkbox"/> | US 4248911 A | 19810203   | 9     | Concentrated heavy duty particulate laundry detergent  | 510/356    |
| 22 | <input type="checkbox"/> | <input type="checkbox"/> | US 3971726 A | 19760727   | 7     | Process for lowering the bulk density of alkali making built synthetic detergent compositions  | 510/443    |
| 23 | <input type="checkbox"/> | <input type="checkbox"/> | US 3962149 A | 19760608   | 9     | Non-phosphate spray dried detergents containing dicarboxylic acid salts  | 510/283    |
| 24 | <input type="checkbox"/> | <input type="checkbox"/> | DE 3684085 G | 19870422   | 9     | Low phosphate granular detergent compsn. prepn. - including post-dosing spray-dried poly:phosphate-contg. base powder with sodium sulphate     |            |
| 25 | <input type="checkbox"/> | <input type="checkbox"/> | US 4457854 A | 19840703   | 12    | Free flowing, phosphate-free heavy duty laundry detergent - comprising zeolite, carbonate, silicate base beads and absorbed nonionic detergent |            |

|    | Current XRef   | Retrieval<br>Classif | Inventor                    | S                                   | C                        | P                        | 2                        | 3                        | 4                        | 5                        |
|----|--|----------------------|-----------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 20 | 23/313AS;<br>23/313R;<br>252/179;<br>252/383;<br>252/384;<br>252/385;<br>427/214;<br>427/215;<br>427/219;<br>427/220;<br>510/349;<br>510/441;<br>510/443;<br>510/507 |                      | Wixon, Harold E.            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| 22 | 510/454;<br>510/531  |                      | Smith, Jr., Frank R. et al. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 | 510/320;<br>510/351;<br>510/361;<br>510/443  |                      | Chirash, William et al.     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 |  |                      | APPEL, P W et al.           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 25 |  |                      | GANGWISCH, W J et al.       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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